

OP-1 can induce differentiation along elements of the endochondral ossification pathway according to the stage and potential of the target cell.

CT Check Tags: Human; Support, U.S. Gov't, P.H.S.

**\*Adipocytes: CY, cytology**

Alkaline Phosphatase: ME, metabolism  
Animals

**\*Bone Morphogenetic Proteins**

Carcinoma, Embryonal

**\*Cartilage: CY, cytology**

Cell Differentiation: DE, drug effects

Clone Cells

Collagen: GE, genetics

**\*Fibroblasts: CY, cytology**

**Gene Expression: DE, drug effects**

Glycerolphosphate Dehydrogenase: ME, metabolism

Glycosaminoglycans: AN, analysis

Mice

**\*Osteoblasts: CY, cytology**

**Osteocalcin: BI, biosynthesis**

**Osteogenesis: DE, drug effects**

**\*Proteins: PD, pharmacology**

RNA, Messenger: AN, analysis

RN 104982-03-8 (Osteocalcin); 64082-61-7 (A73025); 9007-34-5

(Collagen)

CN 0 (Bone Morphogenetic Proteins); 0 (Glycosaminoglycans); 0

(Proteins); 0 (RNA, Messenger); 0 (bone morphogenetic protein

7); EC 1.1.- (Glycerolphosphate Dehydrogenase); EC 3.1.3.1 (Alkaline Phosphatase)

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(FILE 'HOME' ENTERED AT 09:44:55 ON 17 MAY 2004)  
DEL HIS

FILE 'HCAPLUS' ENTERED AT 09:46:14 ON 17 MAY 2004  
SET COST OFF

L1	2 S US20030003084/PN
L2	641 S OIL RED O
L3	561 S NILE RED
L4	195 S ADIPSIN
L5	50531 S ALKALINE PHOSPHATASE
L6	299 S CADHERIN(L)11
L7	6526 S CADHERIN
L8	10922 S CHONDROITIN() (SULFATE OR SULPHATE)
L9	14738 S COLLAGEN (L) TYPE() (1 OR I)
L10	1116 S DECORIN
L11	20526 S FIBRONECTIN
L12	44457 S ACTIN
L13	824 S CALDESMON
L14	50 S TRANSGELIN
L15	481 S PROL? 4 HYDROXYLASE

FILE 'REGISTRY' ENTERED AT 09:58:25 ON 17 MAY 2004

L16	6 S 37213-56-2 OR 7385-67-3 OR 9001-78-9 OR 1320-06-5 OR 9007-28-
L17	18 S C26H24N4O/MF AND C6-C6/ES AND 46.150.18/RID AND 4/NR
L18	8 S L17 AND 2 NAPHTHALENOL
L19	5 S L18 NOT (ETHYL OR DIMETHYLETHYL)

FILE 'HCAPLUS' ENTERED AT 10:02:35 ON 17 MAY 2004

L20	41291 S L16 OR L19
L21	1426 S COMPLEMENT FACTOR D OR COLLAGEN PROLIN# HYDROXYLASE OR PHENOX

L22 148884 S L2-L15,L20,L21  
 L23 185640 S (FIBRONECTIN# OR COLLAGEN# OR ACTIN# OR DECORIN# OR CADHERIN#  
     E SESH1 B/AU  
 L24 13 S E3,E4  
 L25 9539 S MESENCHYM? (L) CELL  
 L26 505 S MESENCHYM? (L) CELL (L) PROGENITOR  
     E PROGENITOR CELL/CT  
     E E3+ALL  
     E E2+ALL  
 L27 23080 S E2,E3,E6,E19  
 L28 7533 S E7-E18  
 L29 7 S L24 AND L25-L28  
 L30 6 S L24 NOT L29  
 L31 1838 S L25,L26 AND L22  
 L32 2171 S L25,L26 AND L23  
 L33 2454 S MESENCHYM? AND L22,L23  
 L34 2454 S L31-L33  
     E TRANSPLANT/CT  
     E E5+ALL  
 L35 36033 S E6+NT,OLD,PFT  
 L36 70 S L34 AND L35  
 L37 116 S L34 AND (TRANSPLANT? OR ?GVHD? OR ?GRAFT? (L) HOST?)  
 L38 116 S L36,L37  
 L39 24 S L38 AND GENE#/CW  
 L40 17 S L38 AND GENETIC?/CW  
 L41 27 S L39,L40  
 L42 6 S L38 AND L25 (L) PRECURS?  
 L43 13 S L38 AND L26  
 L44 13 S L43,L43  
 L45 55 S L38 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)  
 L46 13 S L45 AND L41  
 L47 5 S L45 AND L25 (L) PRECURS?  
 L48 5 S L45 AND L26  
 L49 17 S L46-L48  
 L50 8 S L44 NOT L49  
 L51 1 S L50 AND P/DT  
 L52 23 S L49,L51,L29 AND L1-L15,L20-L51  
     SEL DN AN 1 6 7 9-14 17 18 20  
 L53 11 S L52 NOT E1-E36  
 L54 9539 S L25,L26 OR MESENCHYM? (L) PRECURS? (L) CELL  
 L55 7 S L54 AND DEXTER  
 L56 0 S L54 AND (GTW OR GEIMSA (L) WRIGHT? (L) ?TRYPsin?)  
 L57 0 S MESENCHYM? AND (GTW OR GEIMSA (L) WRIGHT? (L) ?TRYPsin?)  
 L58 0 S MESENCHYM? AND ?GEIMS?  
 L59 5 S MESENCHYM? AND ?GIEMS?  
 L60 5 S L54 AND ?GIEMS?  
 L61 12 S L55,L59,L60  
 L62 7 S L61 AND (PY<=2000 OR PRY<=2000 OR AY<=2000)  
 L63 5 S L61 NOT L62  
 L64 5 S L53 AND L61  
 L65 15 S L53,L62,L64  
 L66 4 S L65 NOT L53  
     SEL DN AN 1  
 L67 1 S E37-E39 AND L66  
 L68 15 S L65,L67  
 L69 9 S L54 AND (ADIPOCYT? AND (OSTEOBLAST? OR OESTEOBLAST?) AND FIBR  
     SEL DN AN 2 4 6 7 8  
 L70 5 S E40-E54 AND L69  
 L71 23 S L54 AND (ADIPO? AND (BONE OR OSTEO? OR OESTEO? OR OSSO?) AND  
 L72 14 S L71 NOT L69  
     SEL DN AN 3 4 6 7 8 9 10 12  
 L73 8 S E55-E76 AND L72  
 L74 26 S L70,L73,L68 AND L1-L15,L20-L73

L75 19 S L74 NOT L24  
 L76 11 S L75 AND (PY<2000 OR PRY<=2000 OR AY<=2000)  
 L77 8 S L75 NOT L76  
 L78 32 S L24,L76,L77  
 L79 6 S L78 NOT L74  
 L80 5 S L79 NOT MITOGEN/TI  
 L81 1 S L79 NOT L80  
 L82 31 S L78 NOT L81

FILE 'HCAPLUS' ENTERED AT 10:36:31 ON 17 MAY 2004  
 E SESH B/AU

FILE 'BIOSIS' ENTERED AT 10:38:24 ON 17 MAY 2004  
 E SESH B/AU

L83 27 S E3,E4  
 SEL DN AN 1-3 5-9 12 14 16  
 L84 11 S E1-E22 AND L83  
 L85 1 S L84 AND P/DT  
 L86 10 S L84 NOT L85

FILE 'BIOSIS' ENTERED AT 10:41:14 ON 17 MAY 2004

FILE 'MEDLINE' ENTERED AT 10:41:33 ON 17 MAY 2004  
 E SESH B/AU

L87 17 S E3,E4  
 SEL DN AN 1 2  
 L88 2 S L87 AND E1-E4  
 E STROMAL CELLS/CT  
 E E3+ALL  
 L89 4923 S E4+NT  
 L90 14540 S L54  
 L91 19120 S L89,L90  
 L92 13838 S L91 AND PY<=2000  
 E CELL LINEAGE/CT  
 E E3+ALL  
 L93 106 S E4+NT AND L92  
 E GENE EXPRESSION/CT  
 E E3+ALL  
 L94 1013 S L92 AND E3+NT  
 L95 12 S L92 AND E16+NT  
 L96 1025 S L94,L95  
 E GENETIC MARKER/CT  
 E E4+ALL  
 L97 25 S L92 AND E12+NT  
 L98 1046 S L96,L97  
 L99 130 S L98 AND (PROGENIT? OR PRECURS?)  
 L100 821 S L98 AND MESENCHYM?  
 L101 860 S L99,L100  
 L102 126 S L101 AND (MULTI? OR PLURAL? OR PLURI?)  
 L103 65 S L102 AND (ADIPO? OR OSTEO? OR OESTEO? OR BONE OR FIBROBLAST?)  
 SEL DN AN 7 8 11 24 37  
 L104 5 S L103 AND E1-E10  
 L105 7 S L88,L104  
 L106 2887 S L89 AND L92  
 L107 795 S L89/MAJ AND L106  
 L108 10 S L107 AND L93  
 L109 68 S L107 AND L94-L97  
 L110 73 S L108,L109 NOT L102,L105  
 SEL DN AN 1 10 18  
 L111 3 S E11-E16  
 L112 10 S L105,L111 AND L87-L111  
 L113 9 S L112 NOT AGGRECAN/TI

FILE 'MEDLINE' ENTERED AT 10:56:56 ON 17 MAY 2004

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